

Attorney Docket No. 1028724-000142

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

James Chris Sackellares et al.

Group Art Unit: 3736

Application No.: 10/648,354

Examiner: Vikram P. Sundararaman

Filing Date:

August 27, 2003

Confirmation No.: 3420

AND PREDICTION

Title: OPTIMIZATION OF MULTI-DIMENSIONAL TIME SERIES PROCESSING FOR SEIZURE WARNING

THIRD INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:			
	nclosed is a 449 for the above		Information Disclosure Statement and accompanying form int application.
×	No additional t	ee for submissi	ion of an IDS is required.
	The fee of \$18	30.00 (1806) as	s set forth in 37 C.F.R. § 1.17(p) is also enclosed.
	A statement u	nder 37 C.F.R.	§ 1.97(e) is also enclosed.
	A statement ui § 1.17(p) are a		§ 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R.
	Charge	to Depo	osit Account No. 02-4800 for the fee due.
			is enclosed for the fee due.
	Charge	to cre	edit card. Form PTO-2038 is attached.
1.21 th	ne Director is here at may be require oper is submitted	ed by this paper	to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and r, and to credit any overpayment, to Deposit Account No. 02-4800.
			Respectfully submitted,
			BUCHANAN INGERSOLL PC
P.O. B	ox 1404		
	dria, Virginia 223	13-1404	11 : 10 10 10
(703) 8	36-6620		By Dun N. Nuter)
_			Nicole D. Dretar
Date:	April 25, 2006		Registration No. 54,076



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
J. Chris Sackellares et al.) Group Art Unit: 3736
Application No.: 10/648,354) Examiner: VIKRAM P SUNDARARAMAN
Filed: August 27, 2003) Confirmation No.: 3420
For: OPTIMIZATION OF MULTI- DIMENSIONAL TIME SERIES PROCESSING FOR SEIZURE WARNING AND PREDICTION))))

THIRD INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The Examiner's attention is directed to application numbers 11/339,606, naming James Chris Sackellares et al. as inventor and filed on January 26, 2006, and 10/673,329, naming James Chris Sackellares et al. as inventors and filed on September 30, 2003, and the documents cited therein.



THIRD Information Disclosure Statement
Application No. 10/648,354
Attorney's Docket No. 1028724-000142
Page 2

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date April 25, 2006

By: Nicole D. Dretar

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P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620

substitute for form	1449A/PTO &	1449B/PTO

THIRD INFORMATION DISCLOSURED STATEMENT BY APPLICANT

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Sheet	1	of	2

Complete if Known				
Application Number 10/648,354				
Filing Date	August 27, 2003			
First Named Inventor	J. Chris Sackellares et al.			
Examiner Name	Vikram P Sundararaman			
Attorney Docket Number	1028724-000142			

			U.S. PATENT DOCUMENTS	
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	6,507,754		Le Van Quyen et al.	1/14/2003

	FOREIGN PATENT DOCUMENTS										
		T				STATUS					
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
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	NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	IASEMIDIS et al., "Phase Space Topography of the Electrocorticogram and the Lyapunov Exponent in				
	Partial Seizures," Brain Topography, Vol. 2, No. 3, pp. 187-201 (1990).				
	PINCUS, "Approximate Entropy as a Measure of System Complexity," Proceedings of the National Academy				
	of Science of the United States of America, Vol. 88, pp. 2297-2301 (1991).				
	J.C. SACKELLARES et al., "Epileptic Seizures as Neural Resetting Mechanisms," Epilepsia, Vol. 38, Suppl.				
	3. p. 189. (1997).				
	L. D. IASEMIDIS et al., "Dynamical Resetting of Human Brain at Epileptic Seizures: Application of Nonlinear				
	Dynamics and Global Optimization Techniques," IEEE Transactions on Biomedical Engineering, Vol. 51, No.				
	3, pp. 493-506, (2004).				
	WOLF et al., "Determining Lyapunov Exponents from a Time Series," Physica D., Vol. 16D, pp. 285-317 (1985).				

Examiner	Date
Signature	Considered
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Substitute for form 1449A/PTO & 1449B/PTO THIRD INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known				
Application Number	10/648,354			
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First Named Inventor	J. Chris Sackellares et al.			
Examiner Name	Vikram P Sundararaman			
Attorney Docket Number	1028724-000142			

(use as many sheets as necessary) Sheet of **NON-PATENT LITERATURE DOCUMENTS** Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, Examiner Initials serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. ECKMANN et al. "Lyapunov Exponents from Time Series," Physical Review A, Vol. 34, No. 6, pp. 4971-4972 (1986). IASEMIDIS et al., "Adaptive Epileptic Seizure Prediction System," IEEE Transactions in Biomedical Engineering, Vol. 50, No. 5, pp. 616-627, (2003). IASEMIDIS et al., "Prediction of Human Epileptic Seizures Based on Optimization and Phase Changes of Brain Electrical Activity," Optimization Methods and Software, Vol. 18, No. 1, pp 81-104, (2003). IASEMIDIS et al., "Seizure Warning Algorithm Based on Spatiotemporal Dynamics of Intracranial EEG," Mathematical Programming, Vol. 101, No. 2, pp. 365-385, (2004).

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